TOP SEARCE

Copy 3 28 September 1962 TID/TAB-75/62

MEMORANDUM FOR: Chief, Technical Intelligence Division

SUBJECT:

Staff Study Concerning Reduction of Data from

Stellar Photography

STATEMENT OF THE PROBLEM

for attitude determination from stellar exposures taken from the next and subsequent CORONA missions.

THE FACTS

- 1. On the next and subsequent CORCMA missions there will be a camera linked together with the terrestrial framing camera, that will photograph the stars. The purpose of photographing the stars is to enable the accurate orientation of the vehicle and terrestrial camera.
- 2. NPIC does not have the production capability to reduce data from the stellar exposures even though it has the requirement.
- because of their participation in the "A" program, has established efficient production procedures and instrumentation for the reduction of attitude from stellar exposures.

DISCUSSION OF THE FACTS

- 1. In order to determine the pitch, roll and yaw of the vehicle and/or terrestrial exposures the following procedures are necessary:
 - a. The stars must be identified.
 - b. Boss catalog of stars must be entered into a computer, NPIC does not have this capability at present.
 - c. The star images must be measured.
 - d. The measurements must be reduced in the computer. NPIC does not have the necessary program for this reduction. Items b and d above preclude any attempt that TID reduce the stellar data.

GROUP (Encluded from autómatic damagrading and of declassification

This dog		i i iomatian
referring	د سائد _{اهم} یت استاد	

25X1

25X1

25X1

	lease 2011/06/07	CIA-RDF I OI	304/4/A002 i	UUU3UUZU -4	
E-marches and a second	DP SECRET				
en e			· · · · · · · · · · · · · · · · · · ·		25
\$4°0.00		Page	ember 1962		
		So sebe	emper 1702		
			: :		
2. The next CORONA mi two weeks. It is the inten- exposures, reduce and forwa- future, when TID has suffic- programs for this type of p and assume the entire respond	at that are the data to cient personnel problem, NPIC wi	nPIC. At a	the stella: ome date in per compute:	r the r	25
RECOMMENDATIONS	**************************************	, \$**			
It is recommended that reduce the required attitud	nPIC obtain a	contract fr	rom	to	25X
such time that TII) is such	a position to o	io the job.			
			(3)		25
					25
	ea e	hief, Techn	(5/	s Branch	25
Distribution:	en e	hief, Techn		s Branch	25
Orig & 1 - Addressee Copy # 3 - TP & DS	CI	hief, Techn		s Branch	25
Orig & 1 - Aldressee Copy # 3 - TP & DS Copy # 4 - AS Copy # 5 - C/TAB	G 1	hief, Techn		s Branch	
Orig & 1 - Addressee Copy # 3 - TP & DS	G	hief, Techn		s Branch	
Orig & 1 - Aldressee Copy # 3 - TP & DS Copy # 4 - AS Copy # 5 - C/TAB		hief, Techn		s Branch	
Orig & 1 - Aldressee Copy # 3 - TP & DS Copy # 4 - AS Copy # 5 - C/TAB	G	hief, Techn		s Branch	
Orig & 1 - Aldressee Copy # 3 - TP & DS Copy # 4 - AS Copy # 5 - C/TAB		hief, Techn		s Branch	
Orig & 1 - Aldressee Copy # 3 - TP & DS Copy # 4 - AS Copy # 5 - C/TAB	Q	hief, Techn		s Branch	25

Sanitized Copy Approved for Release 2011/06/07 : CIA-RDP78B04747A002100030020-4

